Plant Science, 67 (1990) 265–266
Elsevier Scientfic Publishers Ireland Ltd.

CONTENTS

Volume 67 (1990)

PHYSIOLOGY AND BIOCHEMISTRY

Altered feedback sensitivity to valine, leucine and isoleucine of acetolactate synthase from herbicide-resistant variants of *Datura innoxia*
by R. Rathinasabapathi, D. Williams and J. King (Saskatoon, Canada) 1–6

Production and characterisation of monoclonal antibodies to a cationic peroxidase from spinach leaves
by C. Penel, N. Bernardini and H. Greppin (Geneva, Switzerland) 7–19

Utilization of erucoyl-CoA by acyltransferases from developing seeds of *Brassica napus* (L.) involved in triacylglycerol biosynthesis.
by R. Bernerth and M. Frentzen (Hamburg, F.R.G.) 21–28

The phenoloxidase-like activity of purified peroxidase from *Triticum aestivum* L. seedlings leaves
by M.G. De Biasi and M. Badiani (Viterbo, Italy) 29–37

Isolation characterization of the major albumin from *Colocasia esculenta* corms
by M. Carneiro, C.A. Rodrigues, L.A.B. De Castro, M.C. Da Silva and M.V. Coutinho (Brasilia, Brazil) 39–46

Hexose and hexose-phosphate metabolism in barley leaves and roots. Role of glucose 1,6-bisphosphate.
by R.C. Sicher and D.F. Kremer (Beltsville, MD) 47–56

GENETICS AND MOLECULAR BIOLOGY

Species-specific repeated DNA sequences from *Petunia*
by A.L. Shepherd, S. Anderson and S.M. Smith (Edinburgh, U.K.) 57–62

Molecular analysis of transgenic plants derived from transformations of protoplasts at various stages of the cell cycle
by S. Kartzke, H. Saedler and P. Meyer (Cologne, F.R.G.) 63–72

CELL AND TISSUE STUDIES IN VITRO

Induction of somatic embryo development by liquid culture in sunflower
by E. Prado and A. Berville (Dijon, France) 73–82

Embryogenesis and plant regeneration from microspores of both 'indica' and 'japonica' rice (*Oryza sativa*)
by S.K. Datta, K. Datta and I. Potrykus (Zurich, Switzerland) 83–88

Control of carrot somatic embryogenesis by $AgNO_3$, an inhibitor of ethylene action: effect on arginine decarboxylase activity
by J.-P. Roustan, A. Latche and J. Fallot (Toulouse, France) 89–95

Esterase and peroxidase zymograms from barley (*Hordeum vulgare* L.) callus as a biochemical marker system of embryogenesis and organogenesis
by L. Coppens and D. Dewitte (Gent, Belgium) 97–105

Growth and secondary metabolism in cell cultures of *Tanacetum*, *Mentha* and *Anethum* species in buffered media
by D.V. Banthorpe and G.D. Brown (London, U.K.) 107–113

Somatic embryogenesis from immature and mature zygotic embryos, and embryo regeneration from protoplasts in black spruce (*Picea mariana* Mill.)
by T.E. Tautorus, S.M. Attree, L.C. Fowke and D.J. Dunstan (Saskatoon, Canada) 115–124

Measurement of cytoplasmic free calcium in plant protoplasts
by D.C. Elliott and H.S. Petkoff (Bedford Park, Australia) 125–131

Book Reviews 133–134

PHYSIOLOGY AND BIOCHEMISTRY

Abscisic acid catabolism in light-grown and etiolated leaves of *Hordeum vulgare* L. cv. Dyan
by A.K. Cowan and I.D. Railton (Grahamstown, South Africa) 135–140

The participation of *cis*-4-cyclohexene-1,2-dicarboximide in the inhibition of light-controlled growth responses
by A.M. Stewart and J.D. Bewley (Guelph, Canada) 141–149

Chlorate transport in isolated tonoplast vesicles from red beet (*Beta vulgaris* L.) storage tissue
by A.J. Chodera and D.P Briskin (Urbana, IL) 151–160

Roles of pyrophosphate: D-fructose-6-phosphate 1-phosphotransferase and fructose-2,6-bisphosphate in the regulation of glycolysis during acclimation of aerobic *Euglena gracilis* to anaerobiosis
by T. Enomoto, H. Ohyama, H. Inui, K. Miyatake, Y. Nakano and S. Kitaoka (Niigata, Nara and Sakai Osaka, Japan) 161–167

The purification of an anther cellulase ($\beta(1:4)4$-glucan hydrolase) from *Lathyrus odoratus* L. and its relationship to the similar enzyme found in abscission zones
by R. Sexton, E. Del Campillo, D. Duncan and L.N. Lewis (Stirling, U.K. and Berkeley, CA) 169–176

Revertants of the amylose-free potato clone 86.040 ($2n = 1x = 12$)
by E. Jacobsen, H.T. Krijgsheld, J.H.M. Hovenkamp-Hermelink, A.S. Ponstein, B. Witholt and W.J. Feenstra (Groningen, The Netherlands) 177–182

Comparative studies of 11S globulin constituents of *Brassica napus* L. and of its related species *Brassica campestris* L. and *Brassica oleracea* L.
by B. Mimouni, J-M. Robin and J-L. Azanza (Talence, France) 183–194

GENETICS AND MOLECULAR BIOLOGY

Indigenous double-stranded RNA from pepper (*Capsicum annuum*)
by R.A. Valverde, S. Nameth, O. Abdallha, O. Al-Musa, P. Desjardins and A. Dodds (Baton Rouge, LA, Columbus, OH and Riverside, CA) 195–201

CELL AND TISSUE STUDIES IN VITRO

Selection of *S*-(2-aminoethyl)-L-cysteine tolerance in embryogenic calli and regenerated plants of *Pennisetum purpureum* Schum.
by F.A. Redway and I.K. Vasil (Gainesville, FL) 203–209

Somatic embryogenesis and plant regeneration from immature inflorescences of several elite inbreds of maize
by D.R. Pareddy and J.F. Petolino (Champaign, IL) 211–219

Induction of morphogenesis in meristems of different cultivars of *Pisum sativum* L.
by H. Kallak and A. Kõiveer (Tartu, Estonian S.S.R.) 221–226

A highly efficient selection method for somatic hybrids which uses an introduced dominant selectable marker combined with iodoacetamide treatment
by H. Ichikawa and J. Imamura (Yokohama, Japan) 227–235

GENERAL

Subcellular location of avocado sunblotch viroid in avocado leaves
by J.F. Marcos and R. Flores (Valencia, Spain) 237–244

Effects of phosphonate on the elicitor activity of culture filtrates of *Phytophthora cryptogea* in *Vigna unguiculata*
by P. Saindrenan, T. Barchietto and G. Bompeix (Paris, France) 245–251

Comparative ultrastructural and fluorescence studies of grapevine (*Vitis vinifera* L.) chloroplasts isolated from stem and leaf tissues
by A.G. Ivanov, N.S. Ignatova and A.M. Christov (Sofia, Bulgaria) 253–257

Subject Index Volume 67 259–261

Author Index Volume 67 263–264

Contents Volume 67 265–266